

Amendments to the Specification:

Please replace paragraph [0013] with the following rewritten paragraph:

[0013] The reforming portion 30 has a honeycomb filter 32. The honeycomb filter 32 has honeycomb tubes which include a plurality of cells. A raw material supply flow passage 40 is formed by closing a gas outlet of ~~each of one the half of a number of~~ half of the cells (shown on the right side of Fig. 1) with a plug 41, and a processed gas flow passage 42 is formed by closing a gas inlet of ~~each of the other half number of~~ the cells (shown on the left side of Fig. 1) with a plug 43. This honeycomb tube is made from a suitable material, such as a sintered material, non-woven fabric, a foamed material, a mesh material, and a porous material having a plurality of gaps with an effective diameter equal to or smaller than about 100 μ m. Although this is a carrier having an integral structure, i.e., a monolithic substrate, it is perforated with regular holes (in the shape, e.g., of a square, a triangle or a hexagon) and is therefore called a honeycomb tube. The raw material supply flow passages 40 and the processed gas flow passages 42 are disposed adjacent to each other, with a filtering member 34 (which defines a partition 34 and thus will be referred to hereinafter as a “partition”) interposed therebetween. Raw gas supplied from the raw material supply flow passage 40 penetrates the partition 34 and is discharged from the processed gas flow passage 42.

Please replace paragraph [0023] with the following rewritten paragraph:

[0023] Next, a second embodiment of the invention will be described. Fig. 4 shows a partition 34B of a honeycomb filter 32B of the second embodiment. The second embodiment is identical with the first embodiment in other respects. That is, the block diagram shown in Fig. 1 is also applicable to the second embodiment, and the soot removing routine shown in Fig. 3 is also applicable without any modification. Therefore, description thereof will be omitted. In the second embodiment, as shown in Fig. 4, a partial oxidation catalyst (e.g.,

platinum (Pt), palladium (Pd) and the like) 46 that is highly active in a partial oxidation reaction is carried on a surface of the partition 34B of the honeycomb filter 32B on the side of the raw material supply flow passage 40, and a reforming catalyst (e.g., rhodium (Rh), nickel (Ni) and the like) 48 that is highly active in a water vapor reforming reaction of hydrocarbon fuel is carried on the partition 34B on the side of the processed gas flow passage 42.